

FIG. 1

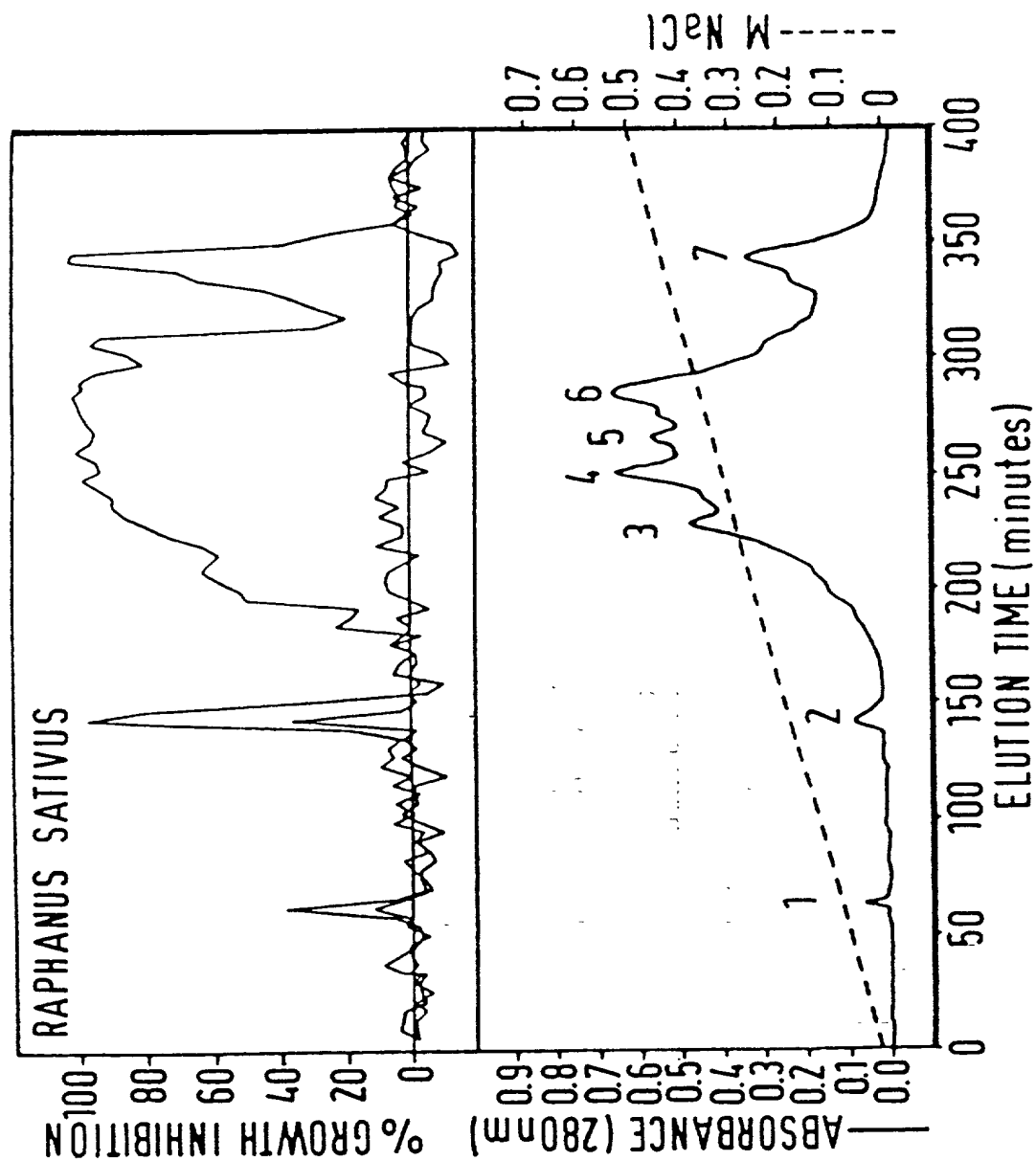


FIG. 2A

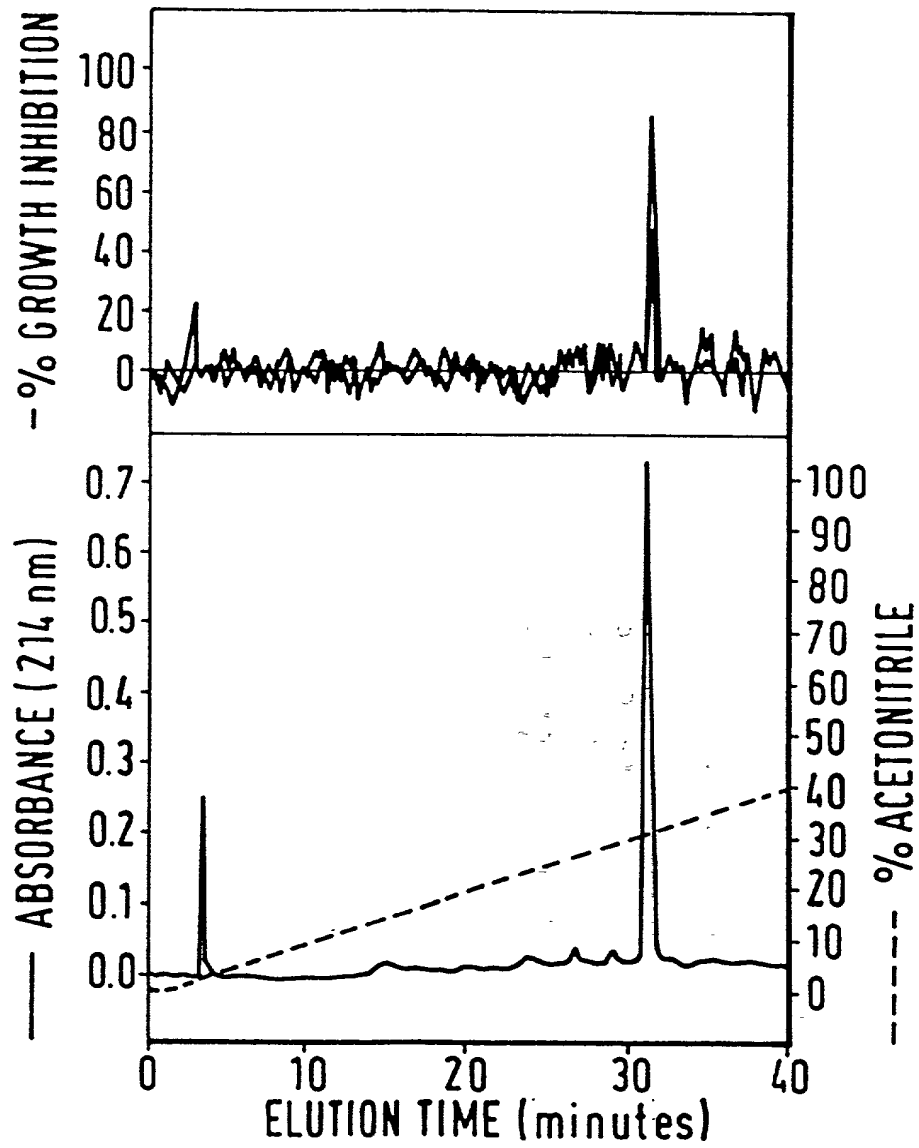


FIG. 2B

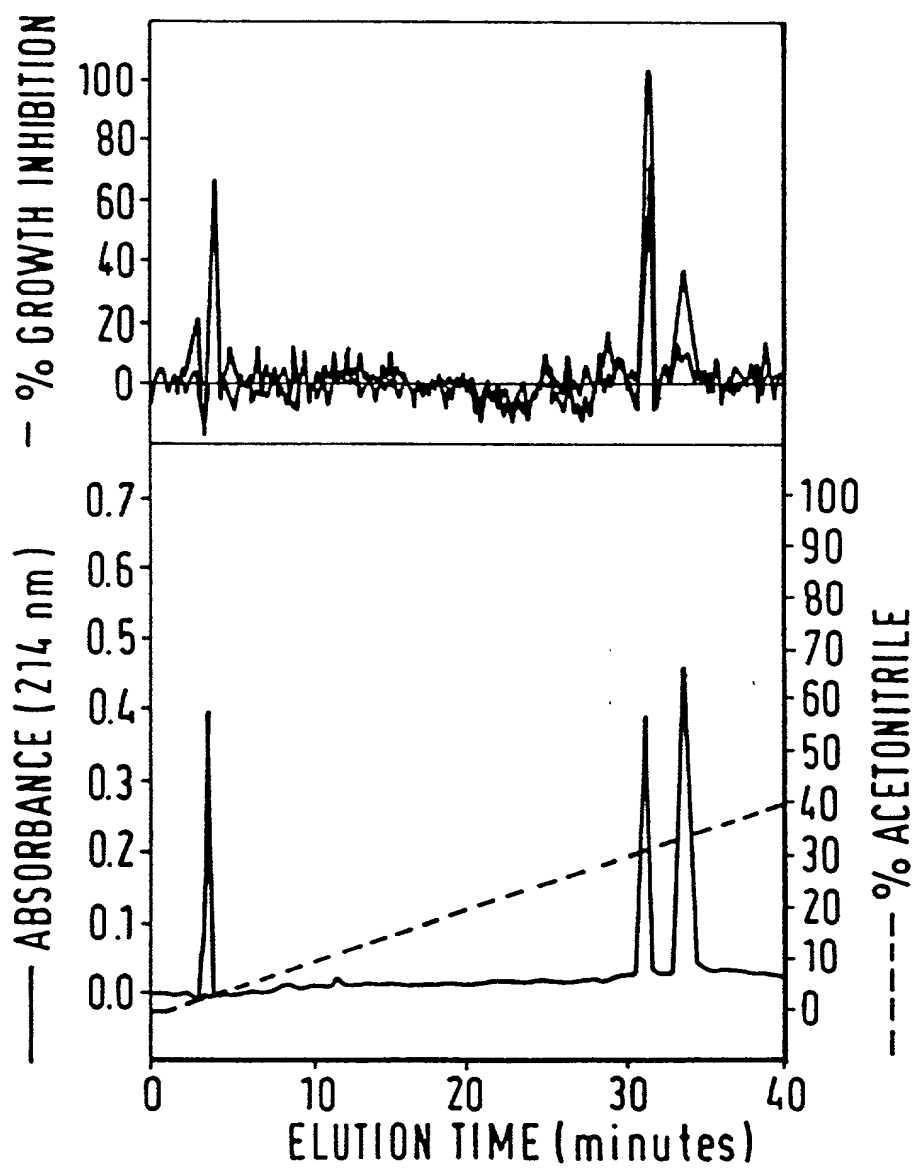
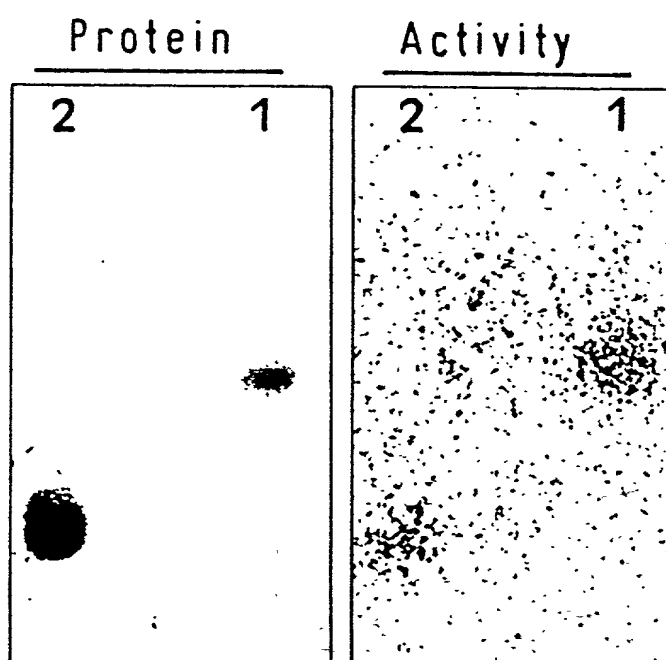


FIG. 3



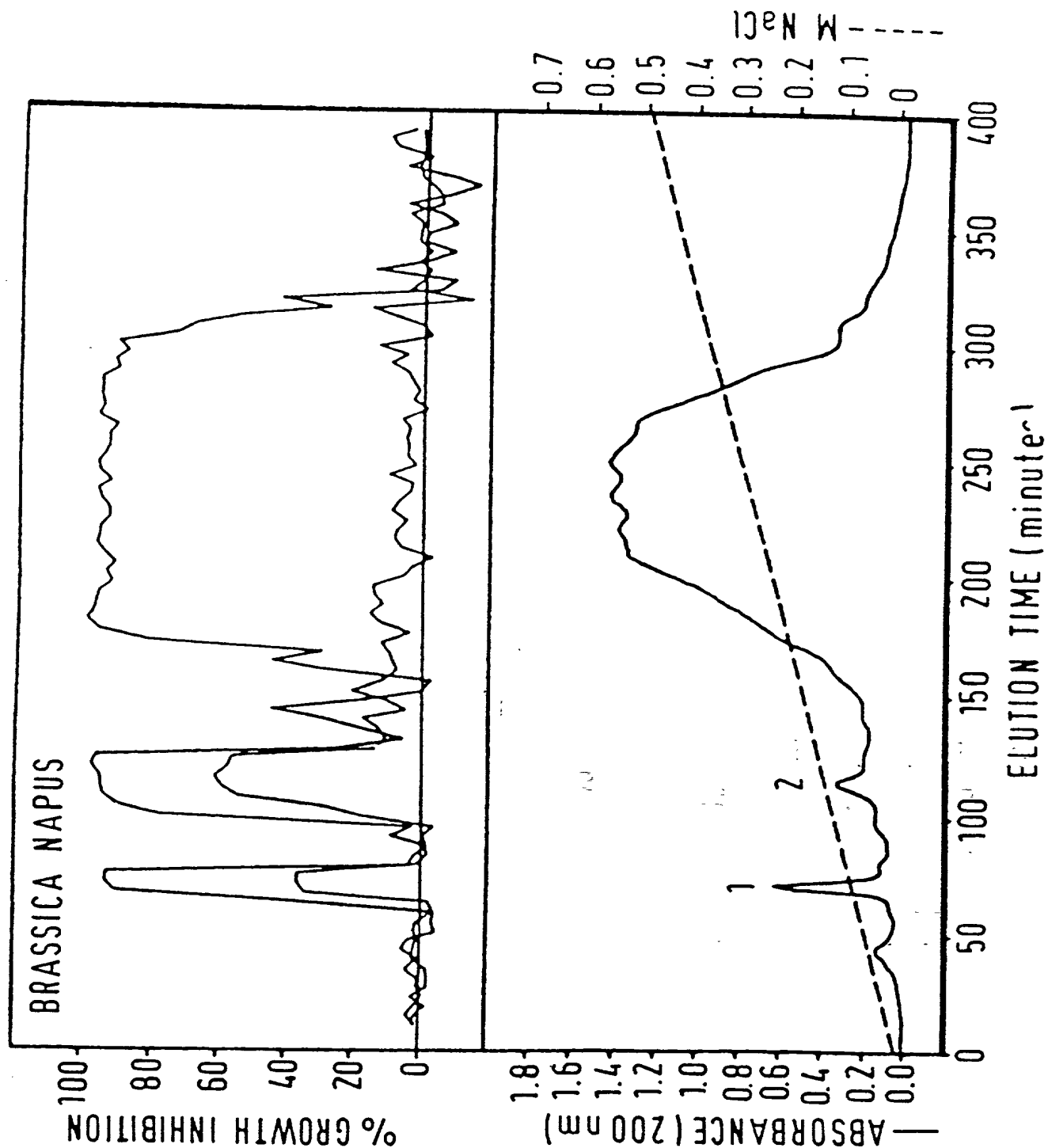


FIG. 4

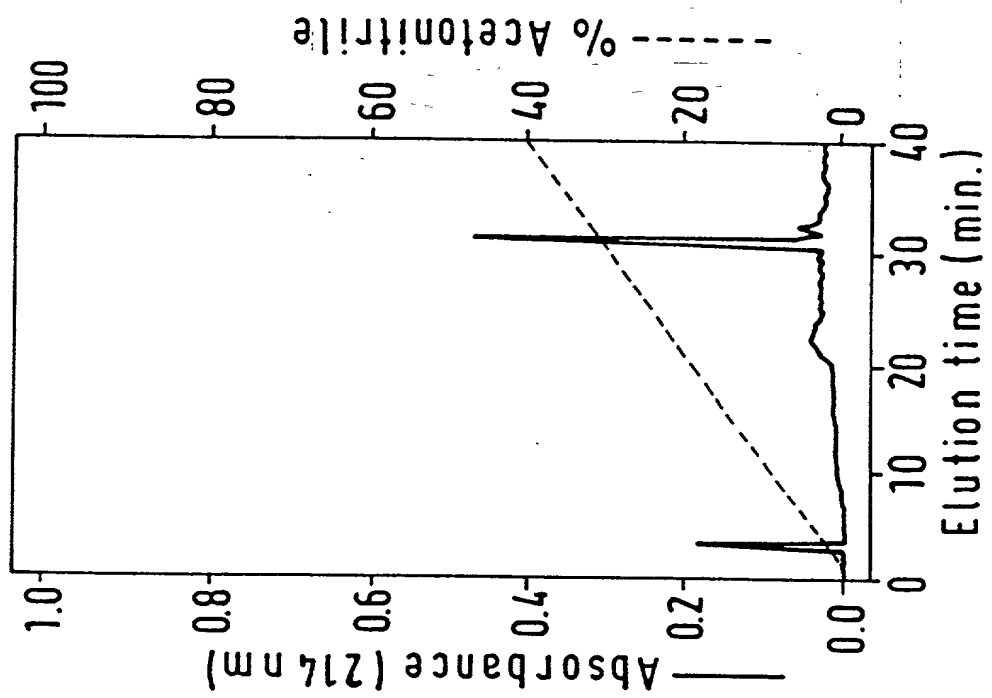


FIG. 5

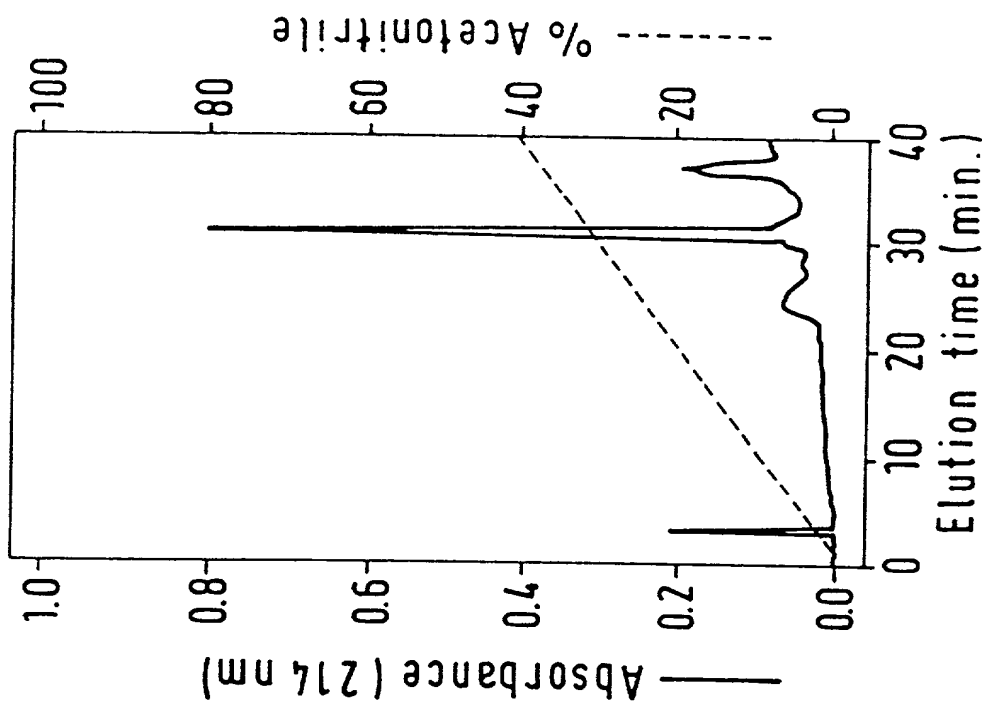


FIG. 6

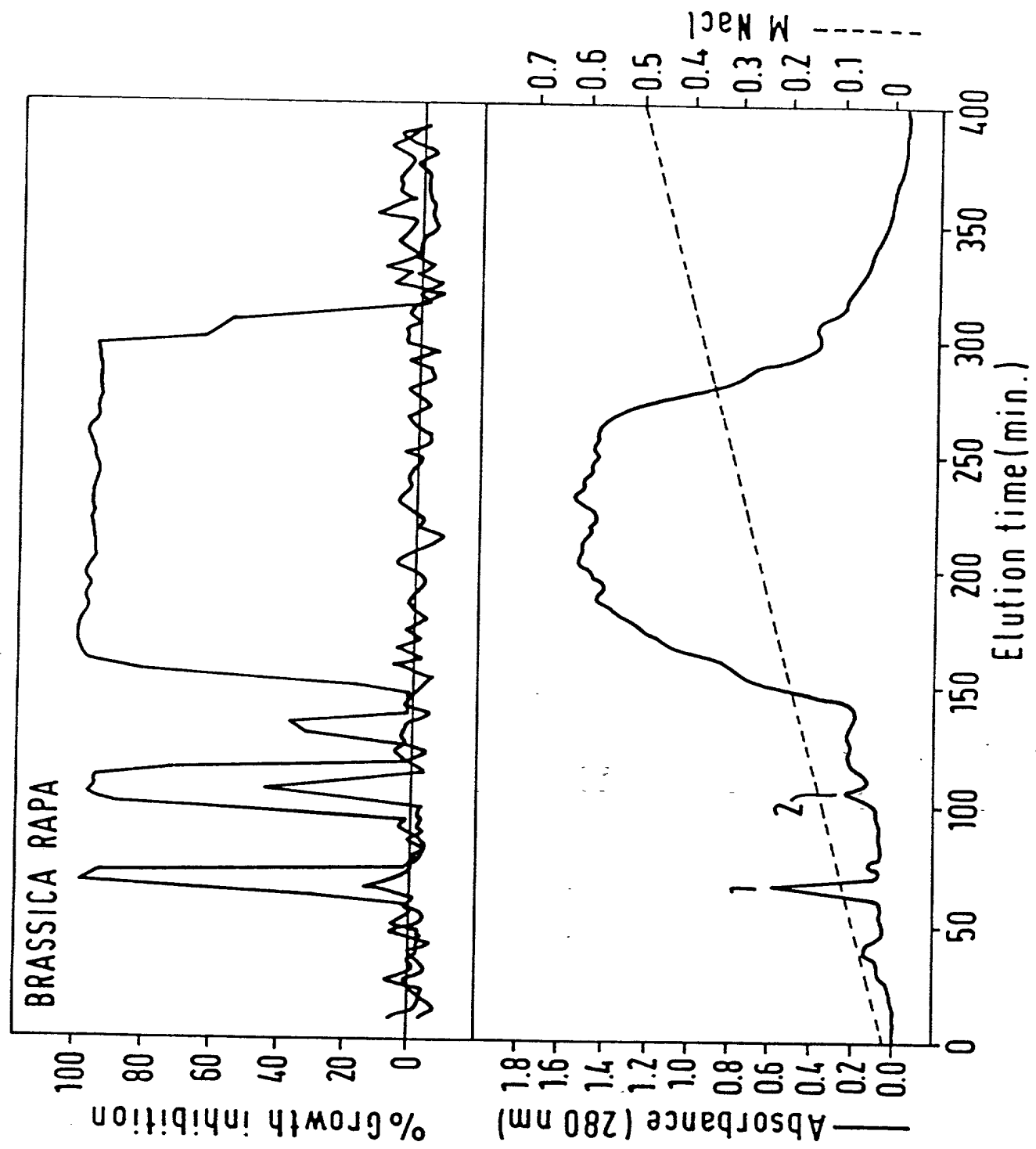


FIG. 7

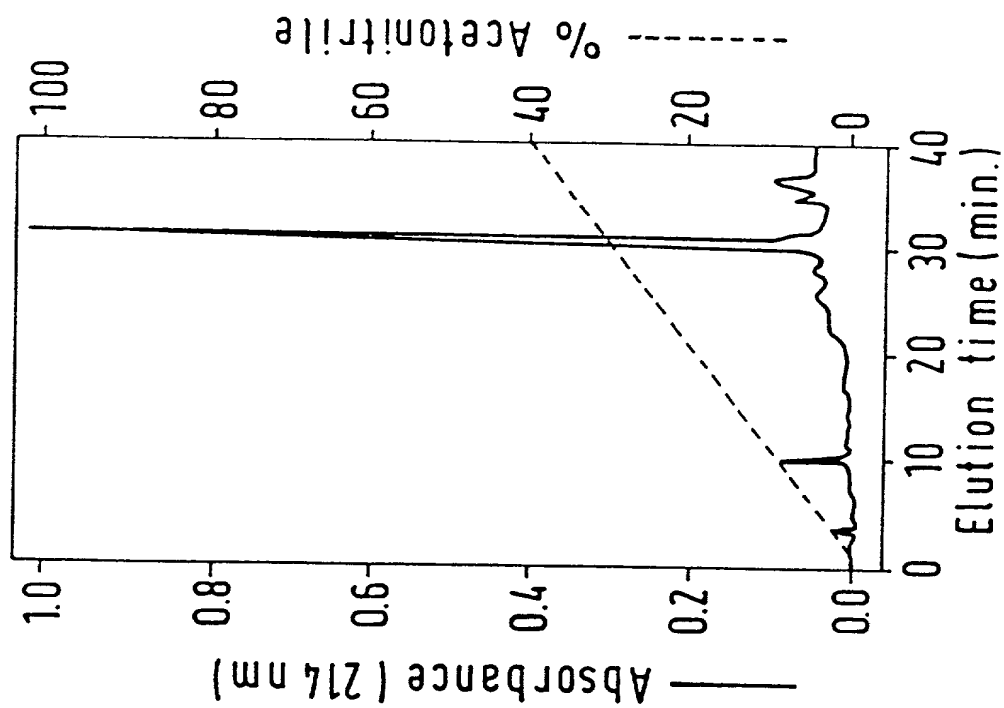
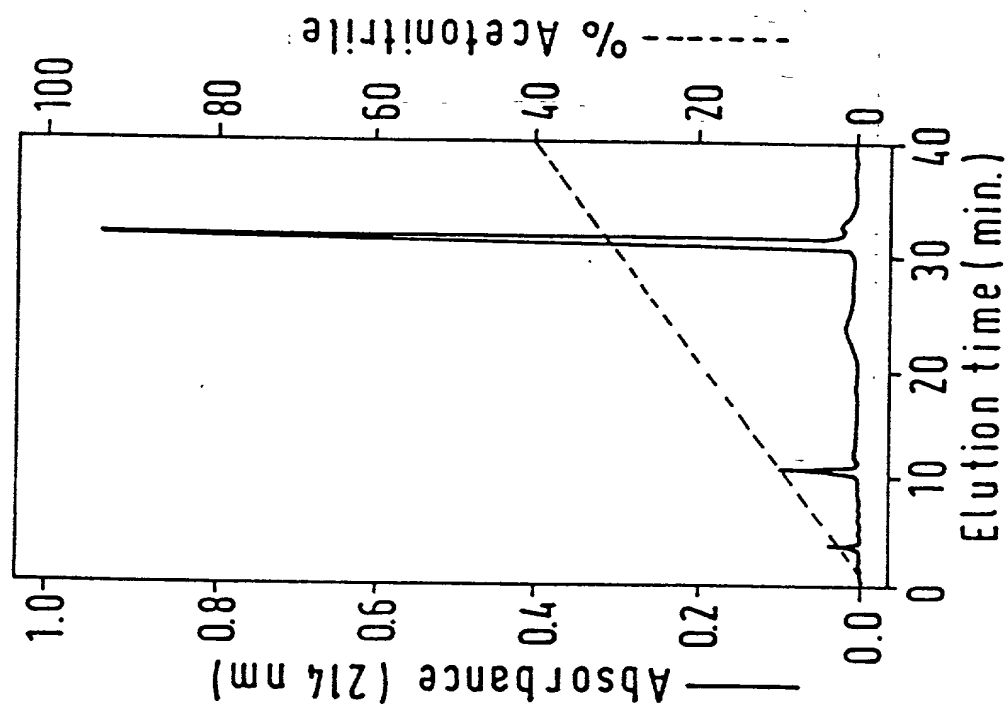
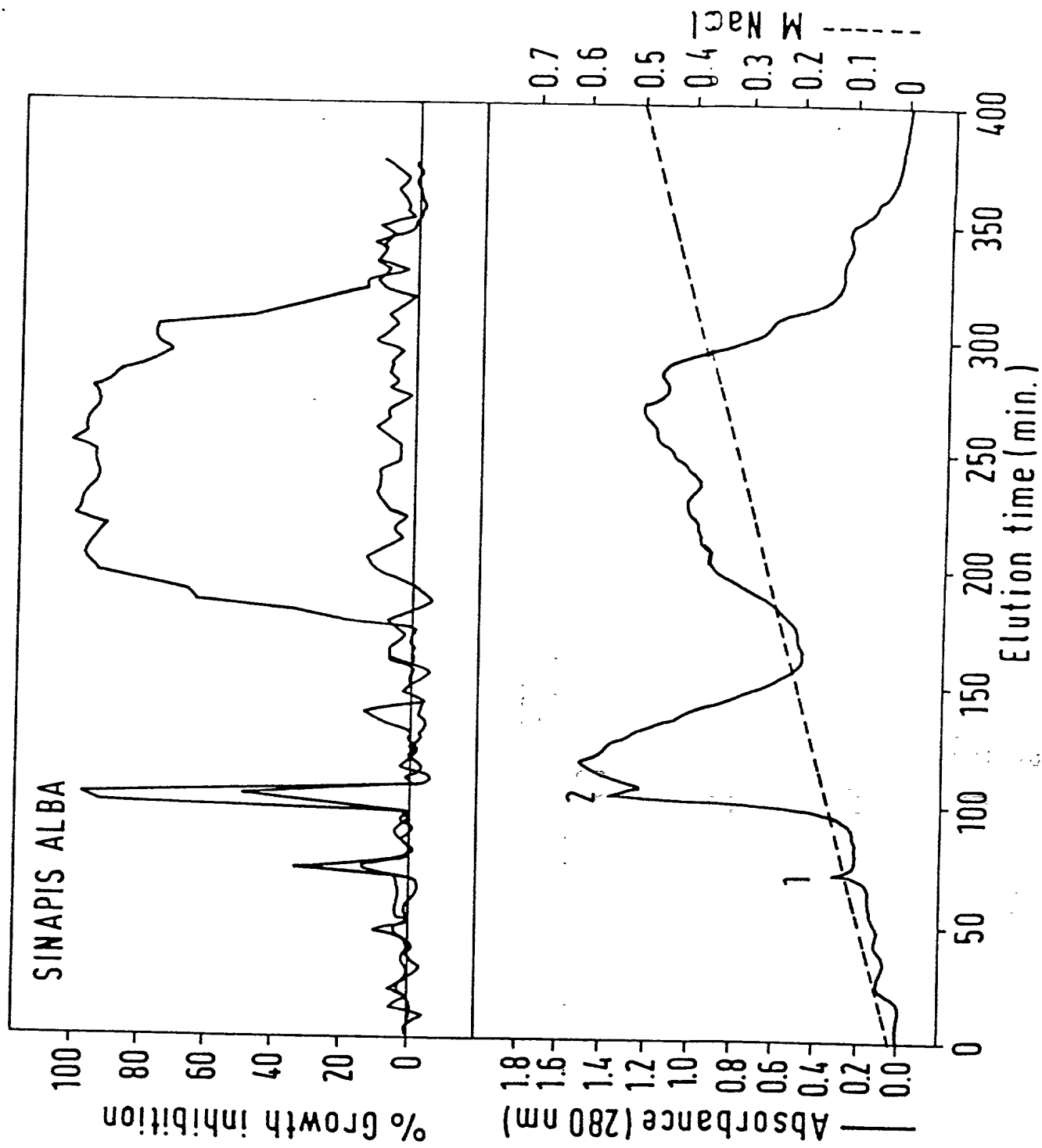




FIG. 8



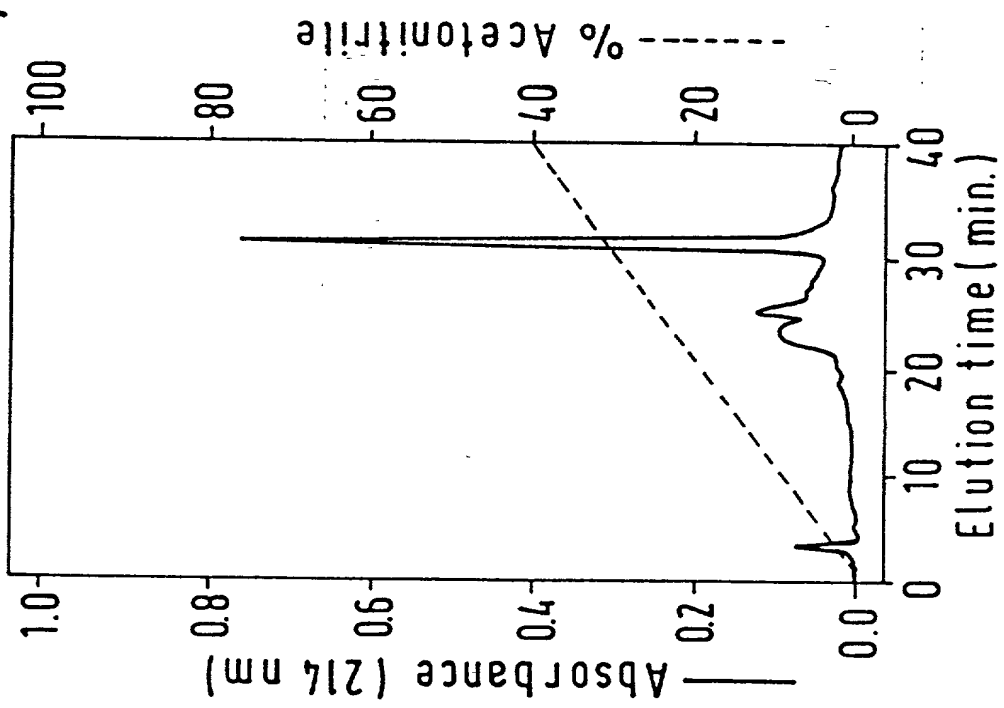


FIG. 9

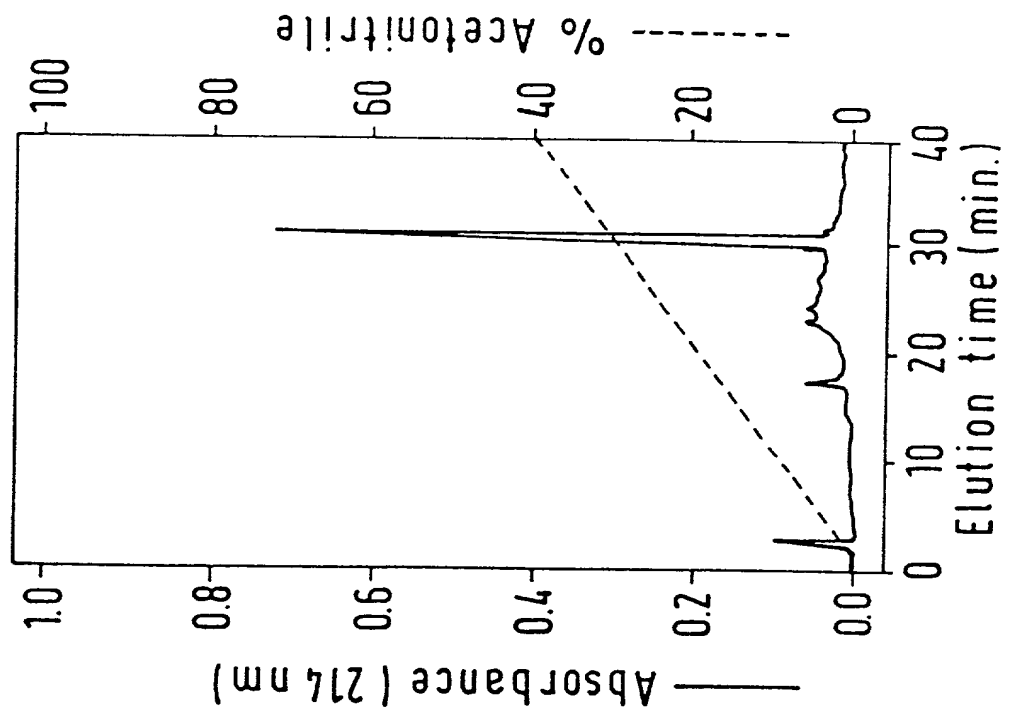


FIG.10

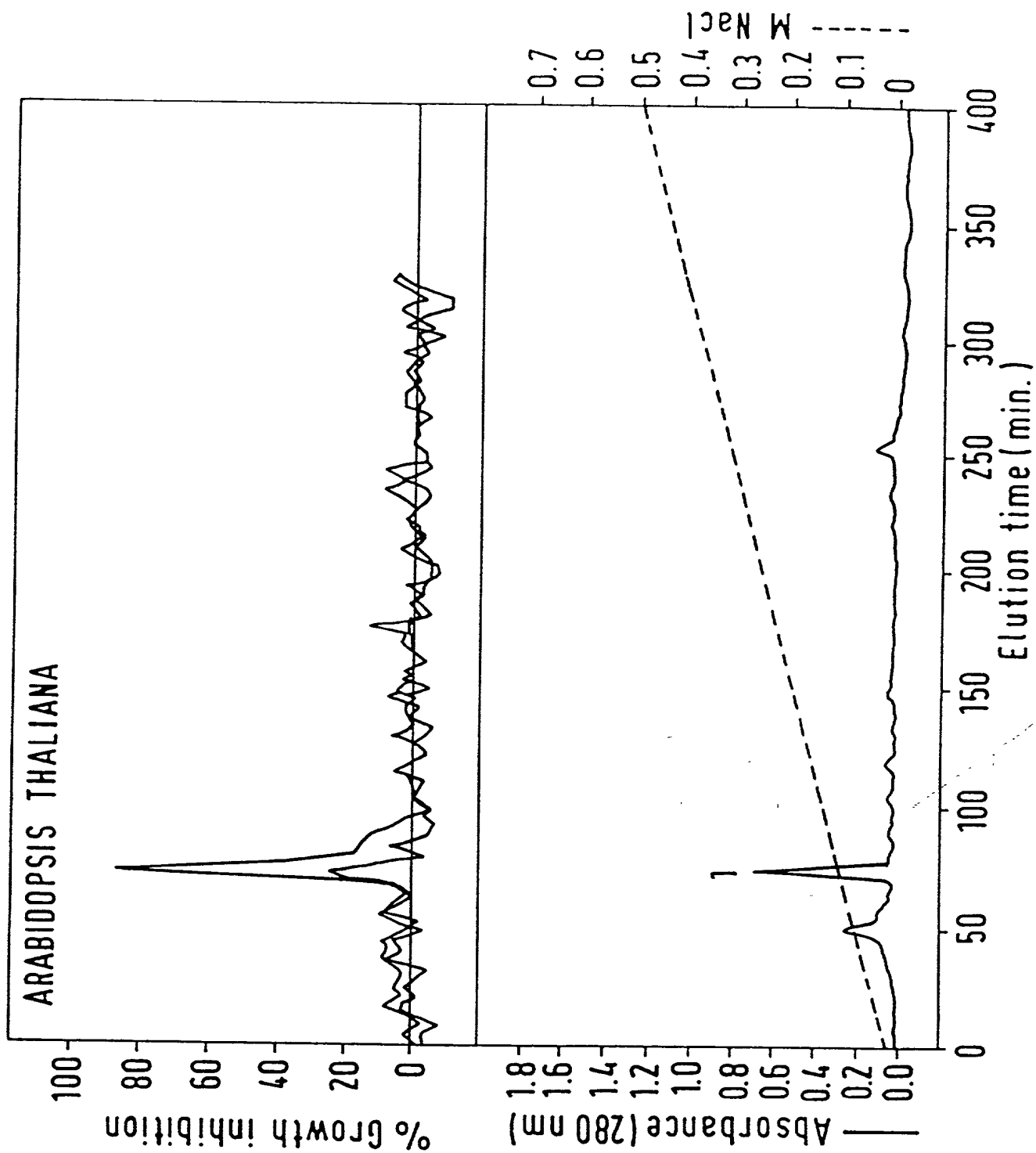


FIG. 11

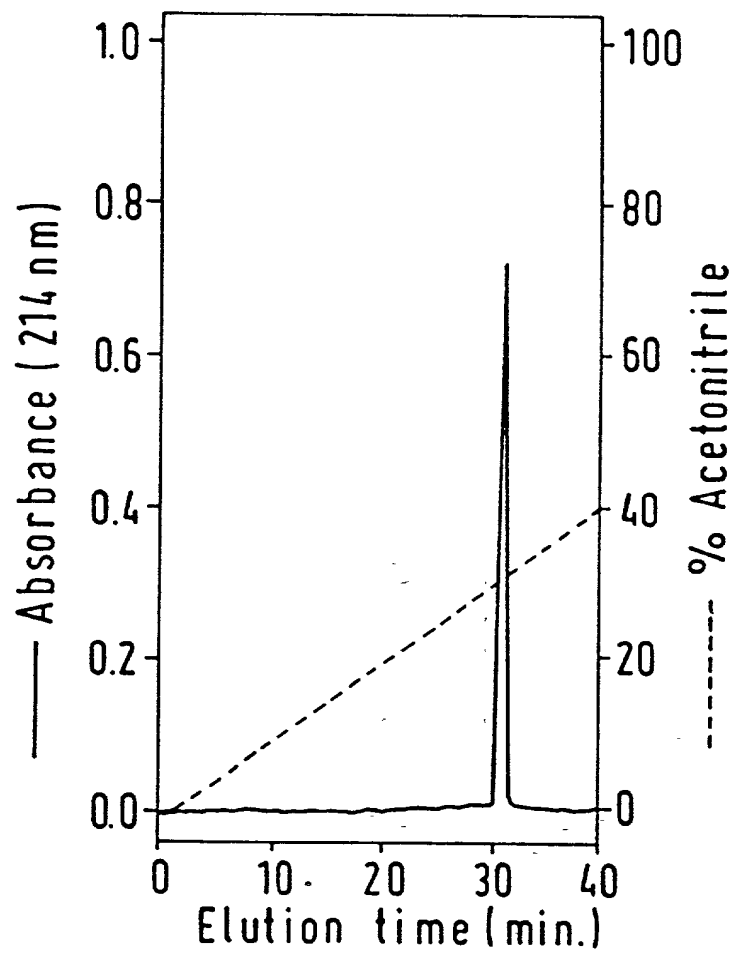


FIG. 12

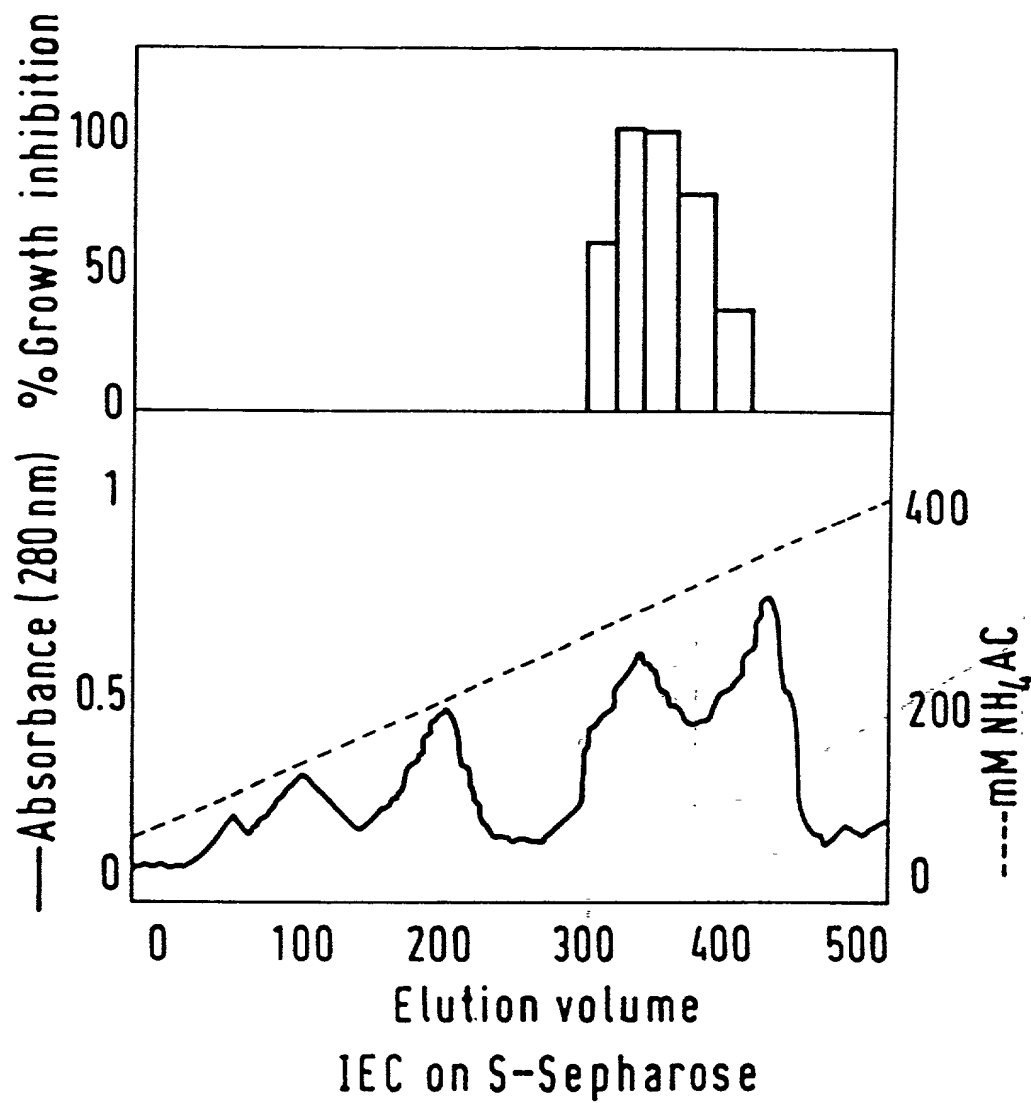


FIG. 13

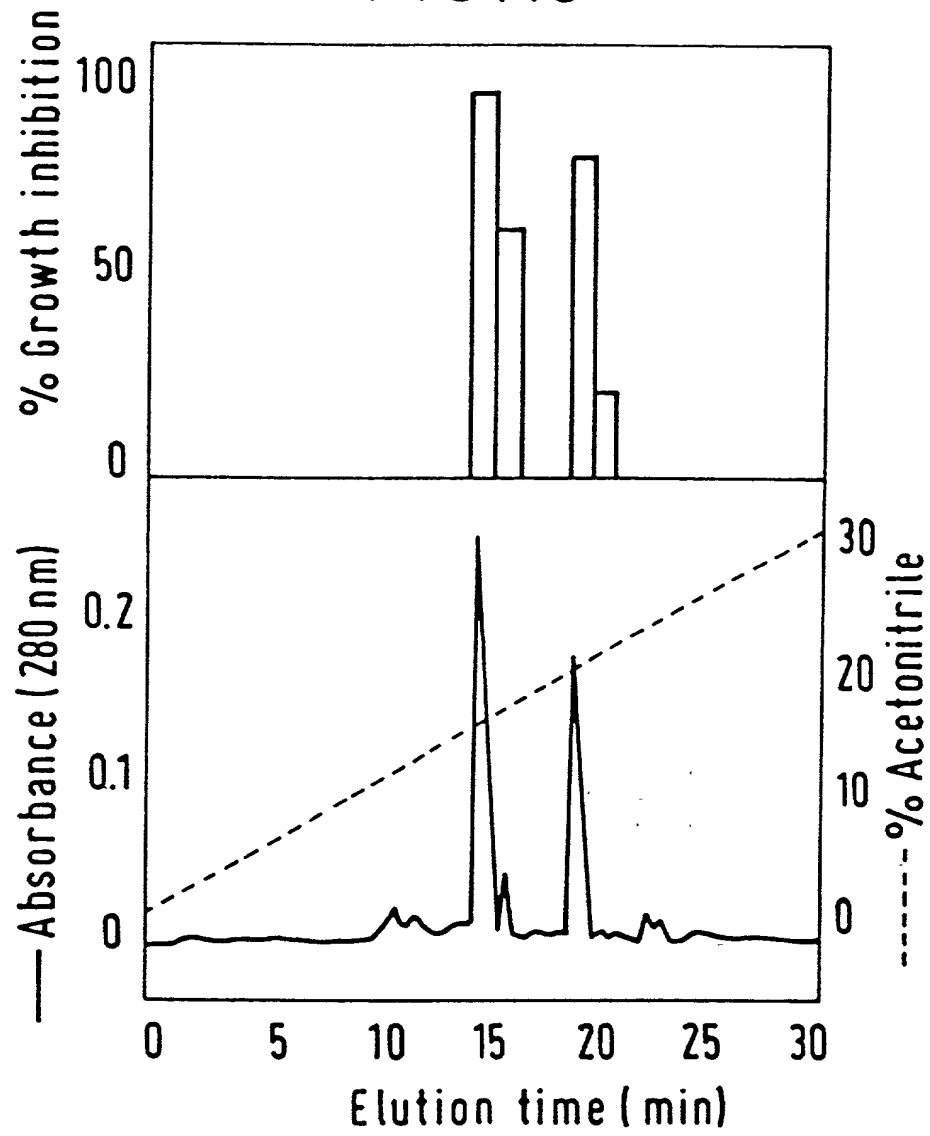


FIG. 14

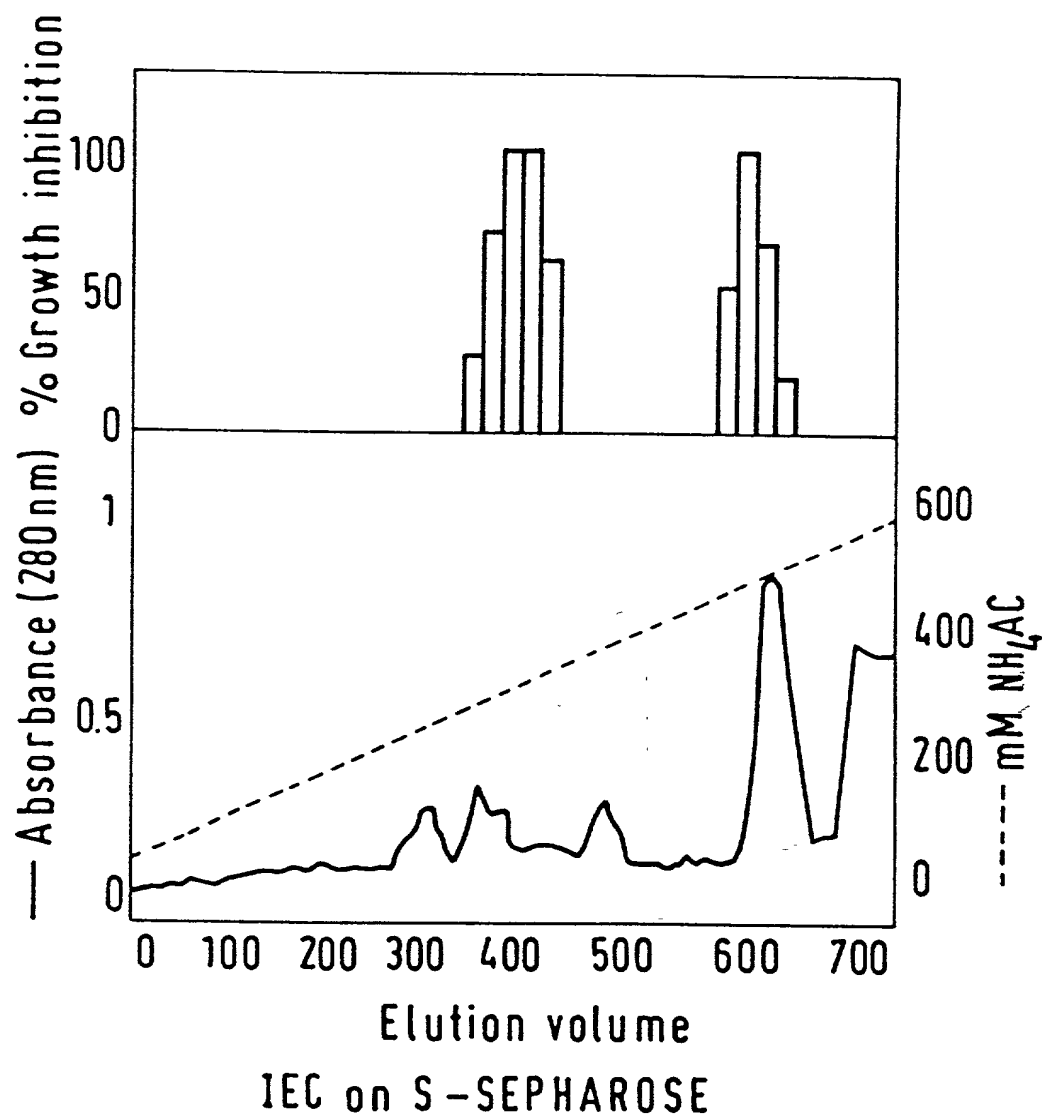


FIG. 15

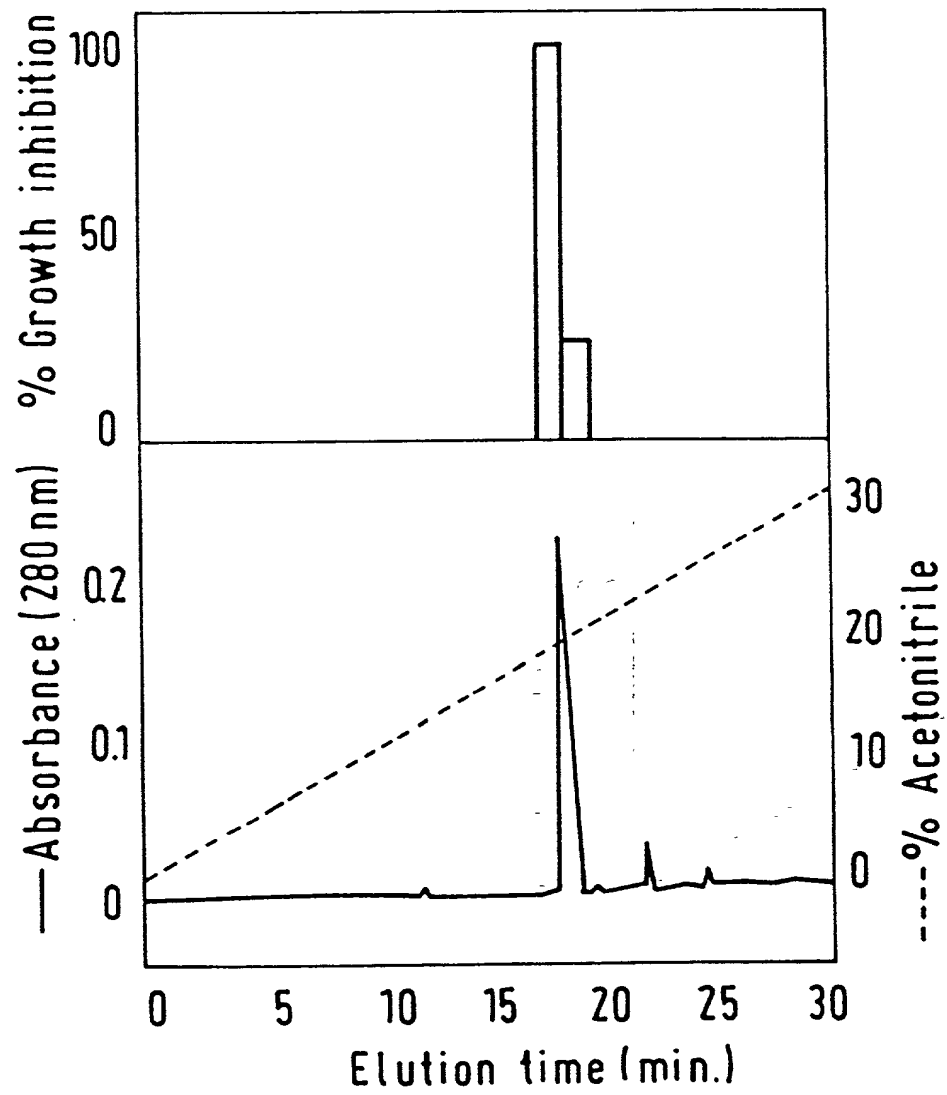




FIG. 16

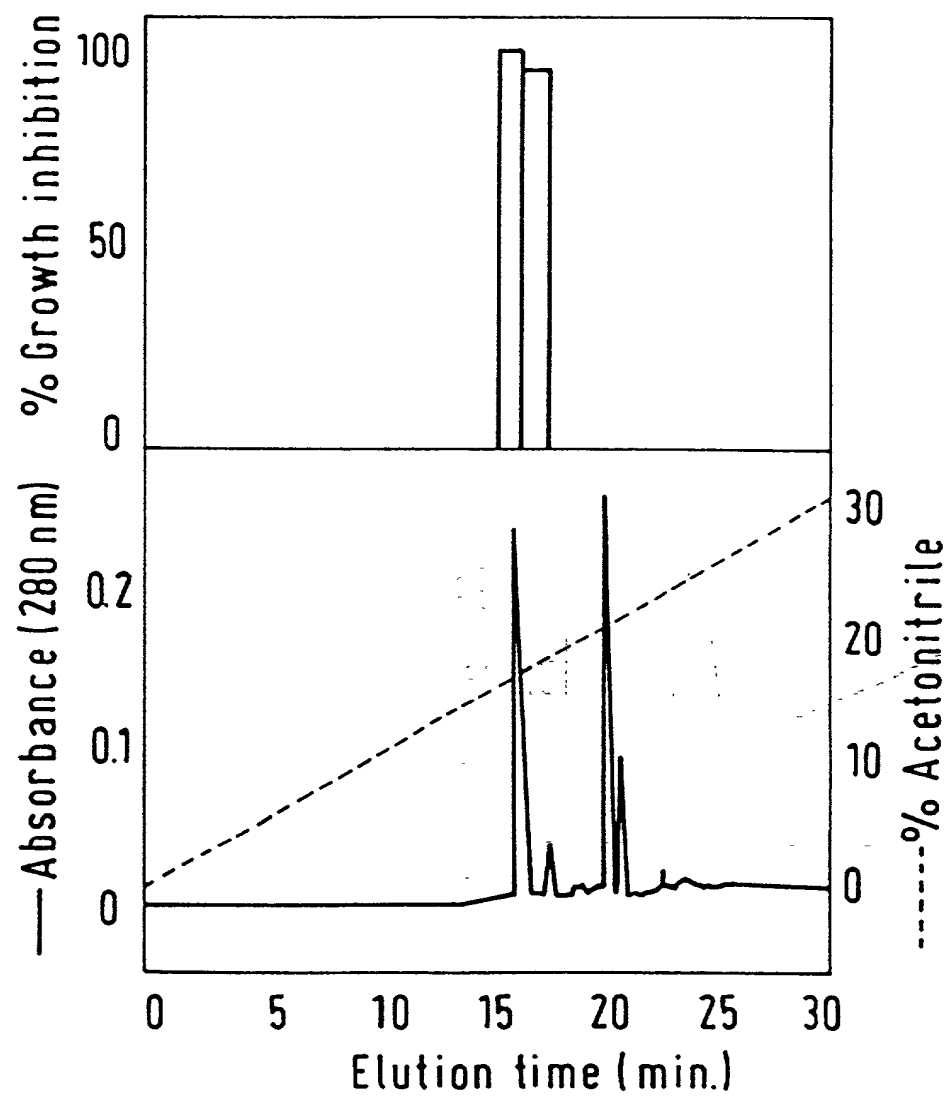


FIG. 17

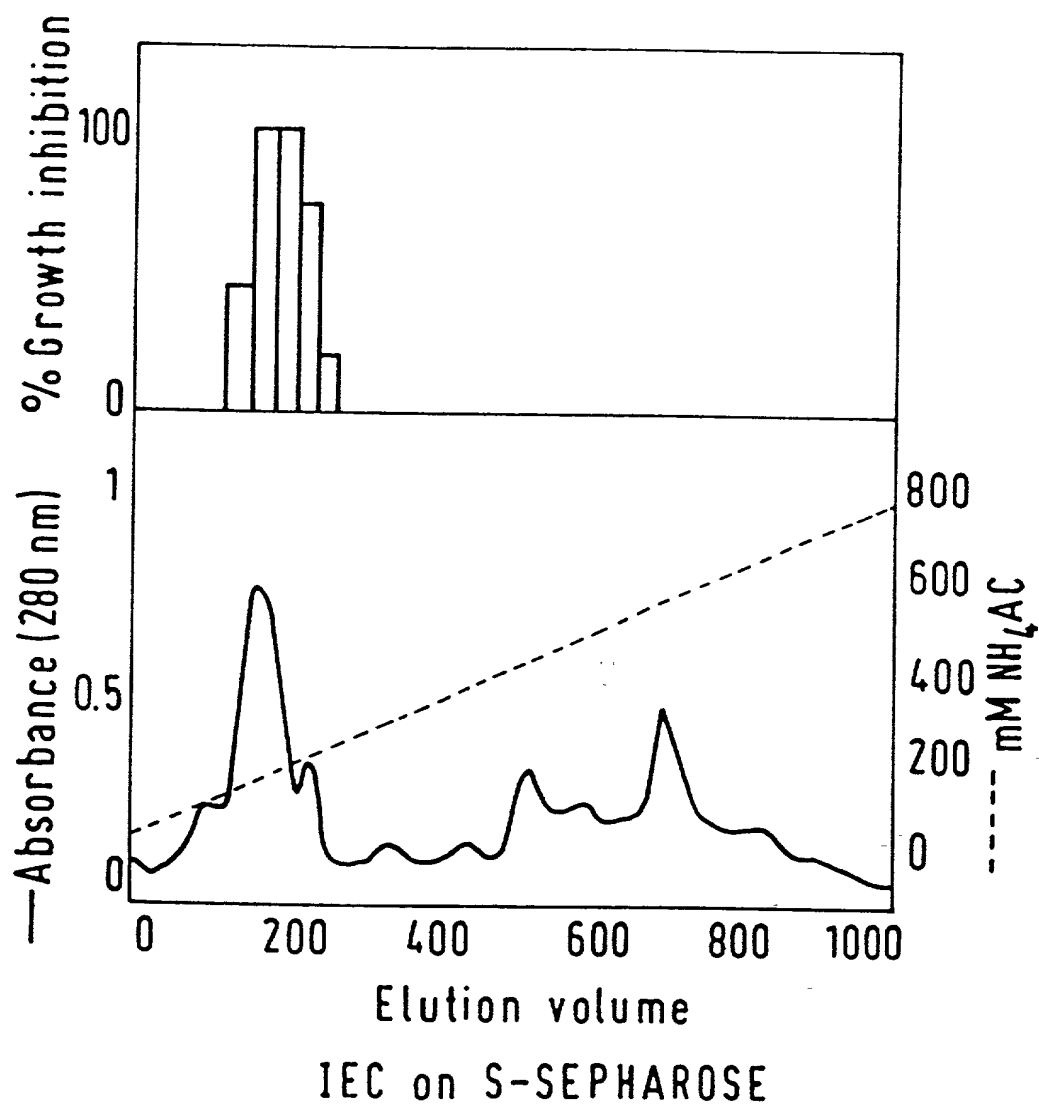


FIG. 18

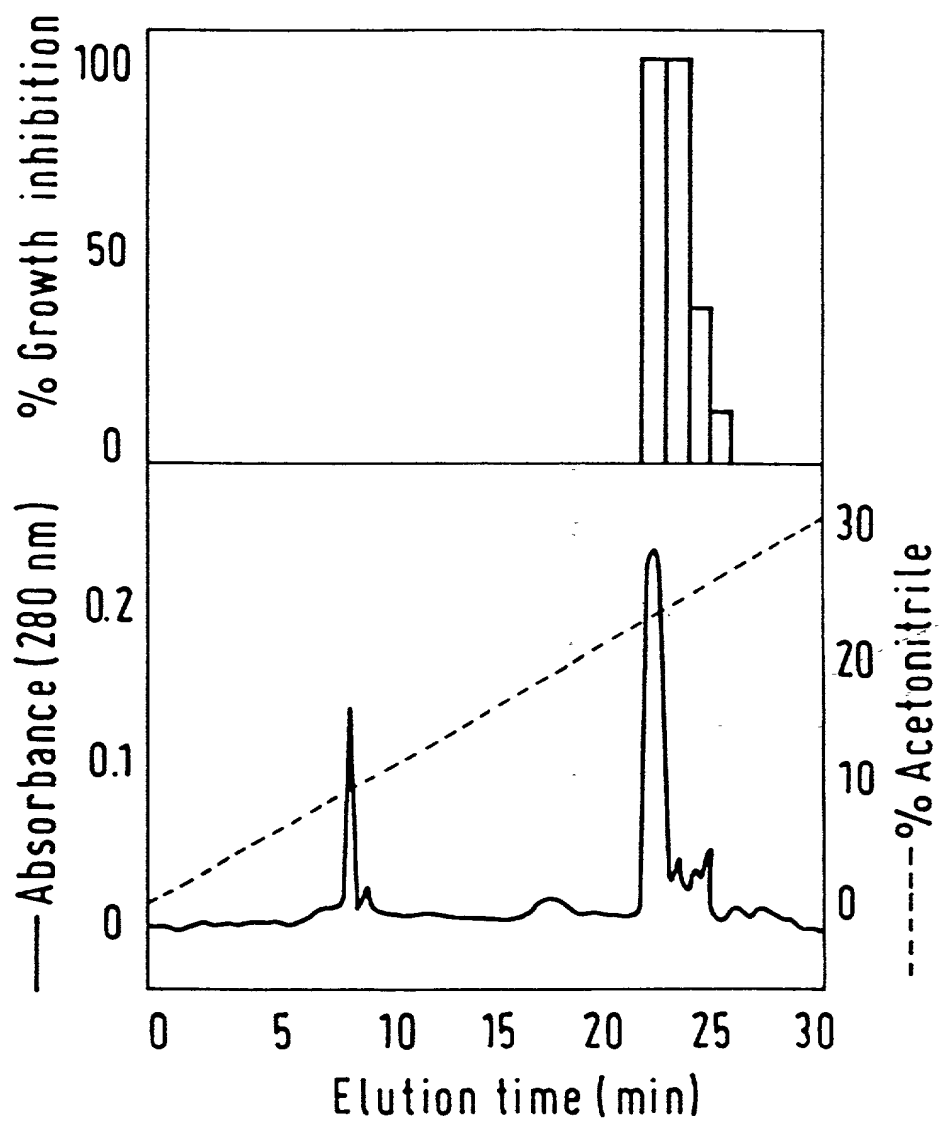


FIG. 19

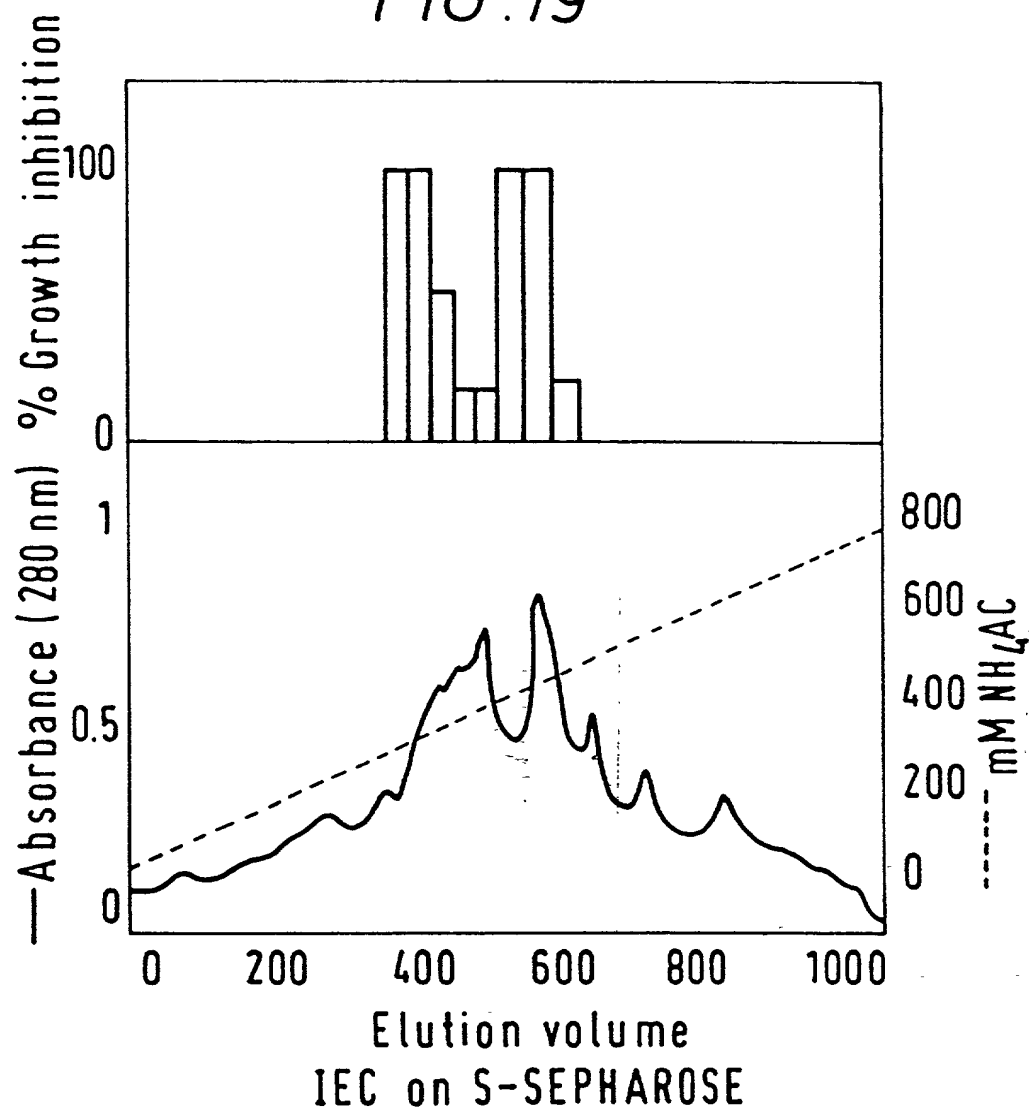


FIG. 20

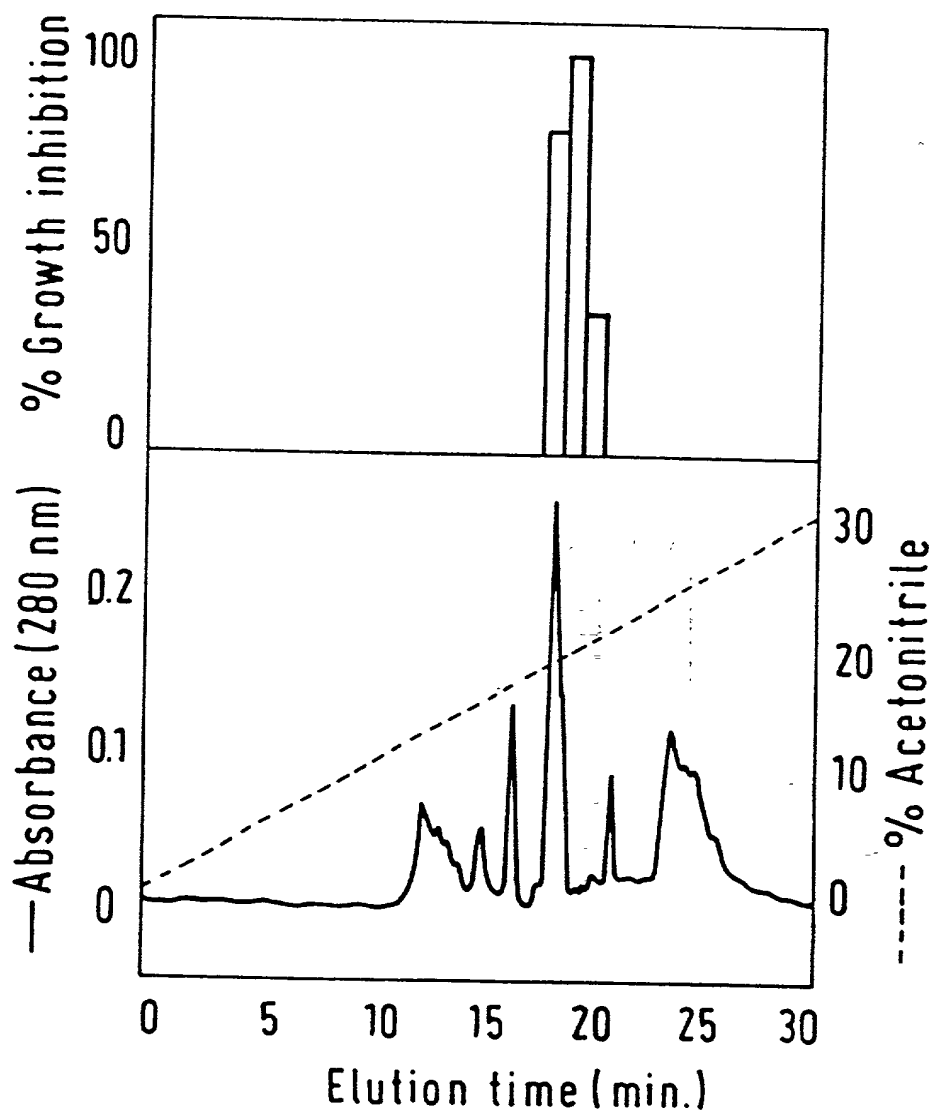


FIG. 21

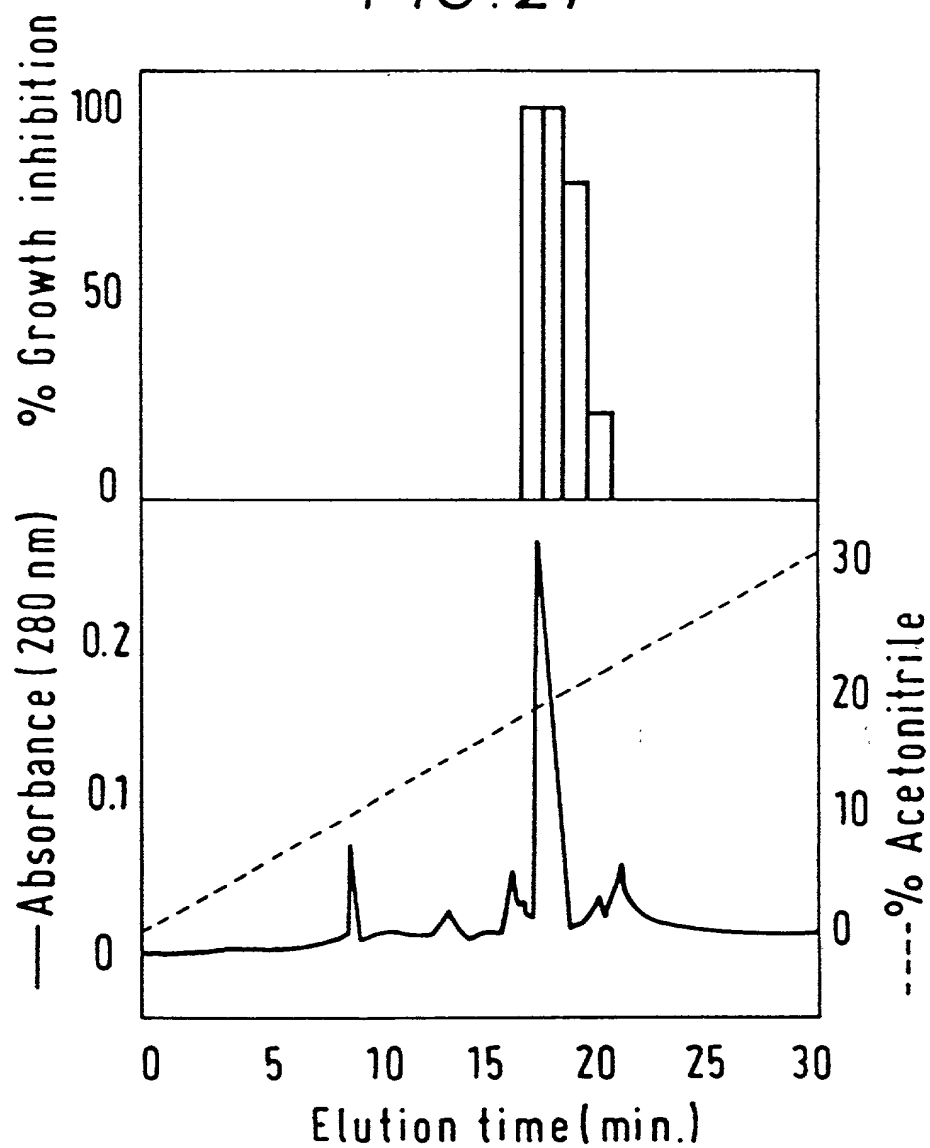


FIG. 22

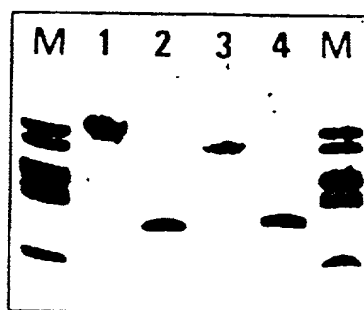


FIG. 23

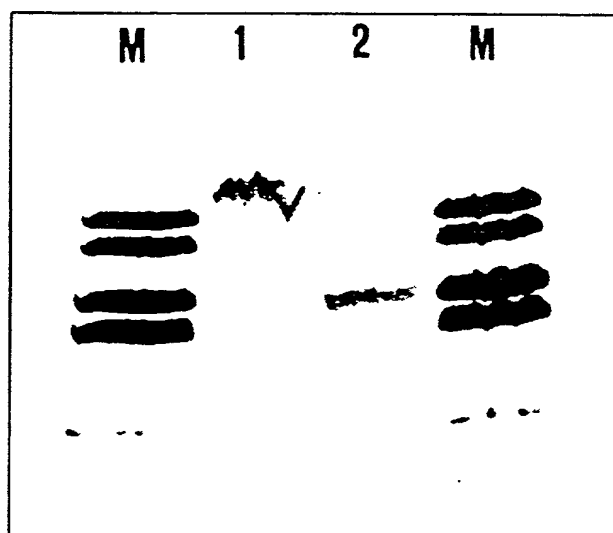


FIG. 24

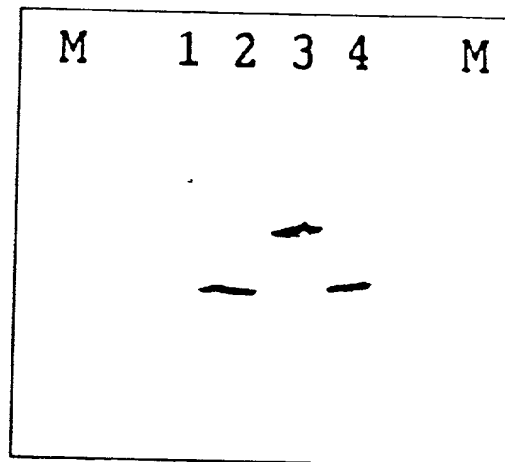


FIG. 25

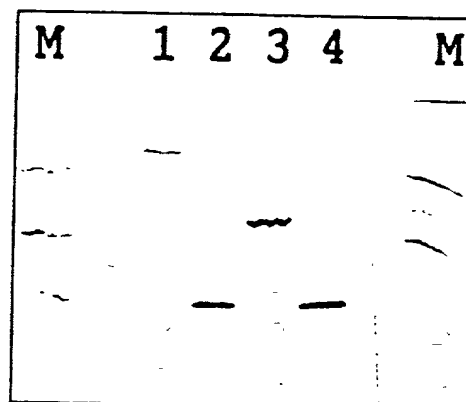


FIG. 26

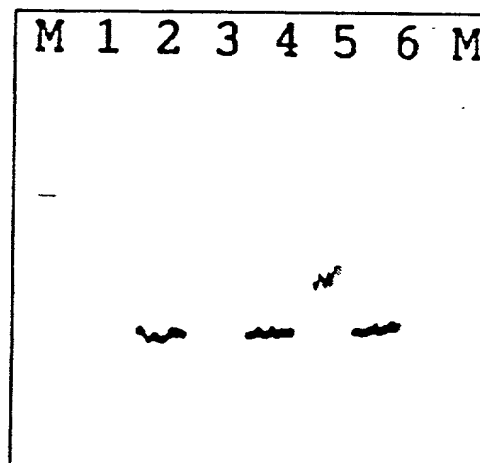




FIG. 27

Rs-AFP1 (Q) K L C E R P S G T W S G V C G N N  
 Rs-AFP2 (Q) K L C Q R P S G T W S G V C G N N

INACKNQCI NLEKARHGSCN YVFP A H K  
 INACKNQCI RLEKARHGSC

Br-AFP1 . . . . .  
 Br-AFP2 . . . . . ? . . . . . R  
 Bn-AFP1 . . . . .  
 Bn-AFP2 . . . . .  
 Sa-AFP1 . . . . .  
 Sa-AFP2 . . . . . Q . . . . . R . . . . .  
 At-AFP1 . . . . . S . . . . .



FIG. 29

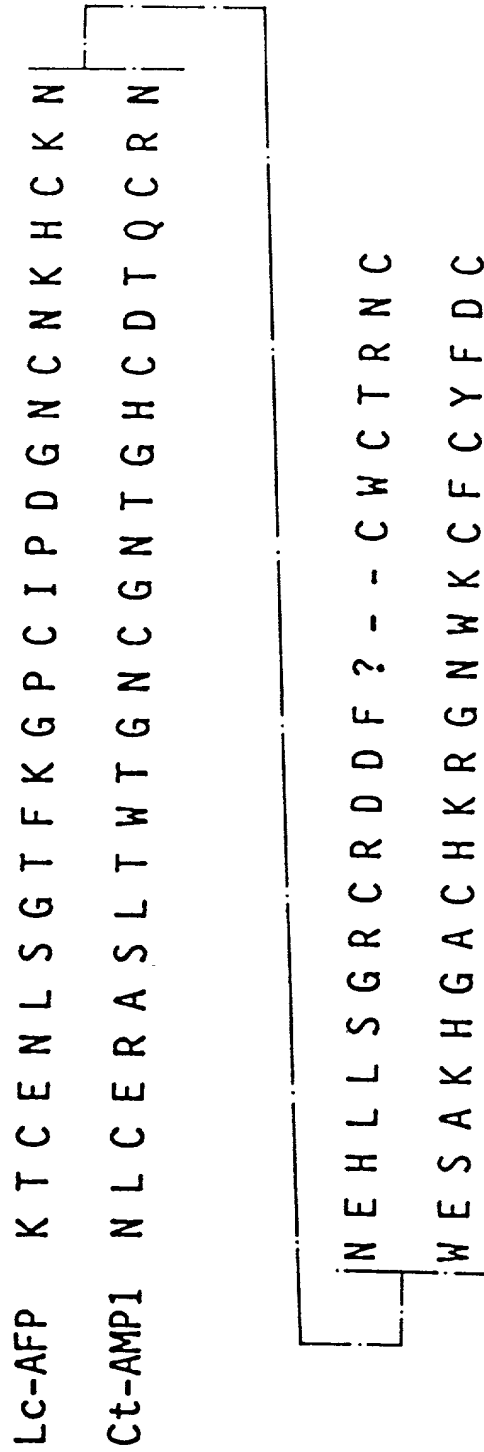


FIG. 30 (1/3)

Rs-AFP1 (Q)	K	L	C	E	R	P	S	G	T	W	S	G	V	C	G	N	N	A	C	
Dm-AMP1	E	L	C	E	K	A	S	K	T	W	S	G	N	C	G	N	T	G	H	C
Cb-AMP1	E	L	C	E	K	A	S	K	T	W	S	G	N	C	G	N	T	K	H	C
Cb-AMP2	E	L	C	E	K	A	S	K	T	W	S	G	N	C	G	N	T	K	H	C
Lc-AFP	K	T	C	E	N	L	S	G	T	F	K	G	P	C	I	P	D	G	N	C
Ct-AMP1	N	L	C	E	R	A	S	L	T	W	T	G	N	C	G	N	T	G	H	C
pI230	N	T	C	E	N	L	A	G	S	Y	K	G	V	C	F	G	G	-	-	C
pI39	N	T	C	E	H	L	A	D	T	Y	R	G	V	C	F	T	N	A	S	C
pSAS10	K	T	C	E	L	N	A	D	T	Y	R	G	P	C	F	T	T	G	S	C
pI322	R	H	C	E	S	L	S	H	R	F	K	G	P	C	T	R	D	S	N	C
SI $\alpha$ 2	R	V	C	M	G	K	S	A	G	F	K	G	L	C	M	R	D	Q	N	C
$\gamma$ 1pur	K	I	C	R	R	R	S	A	G	F	K	G	P	C	M	S	N	K	N	C

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FIG. 30 (2/3)

K	N	Q	C	I	N	L	E	K	A	R	H	G	S	C	N	Y	V	F
D	N	Q	C	K	S	W	E	G	A	A	H	G	A	C	H	V	R	N
D	D	Q	C	K	S	W	E	G	A	A	H	G	A	C	H	V	R	N
D	N	K	C	K	S	W	E	G	A	A	H	G	A	C	H	V	R	S
N	K	H	C	K	N	N	E	H	L	L	S	G	R	C	R	D	D	F
D	T	Q	C	R	N	W	E	S	A	K	H	G	A	C	H	K	R	-
D	R	H	C	R	T	Q	E	G	A	I	S	G	R	C	R	D	D	F
D	D	H	C	K	N	K	A	H	L	I	S	G	T	C	H	-	D	W
D	D	H	C	K	N	K	E	H	L	L	S	G	R	C	R	-	D	D
A	S	V	C	E	T	-	E	R	F	S	G	G	N	C	H	-	G	F
A	Q	V	C	L	-	Q	E	G	W	G	G	G	N	C	D	G	V	M
A	Q	V	C	Q	-	Q	E	G	W	G	G	G	N	C	D	G	P	F

FIG. 30 (3/3)

P	A	H	K	C	I	C	Y	F	P	C
G	K	H	M	C	F	C	Y	F	N	C
G	K	H	M	C	F	C	Y	F	N	C
G	K	H	M	C	F	C	Y	F	N	C
-	-	-	?	C	W	C	T	R	N	C
G	N	W	K	C	F	C	Y	F	D	C
-	-	-	R	C	W	C	T	K	N	C
-	-	-	K	C	F	C	T	Q	N	C
-	-	V	R	C	W	C	T	R	N	C
-	R	R	R	C	F	C	T	K	P	C
-	-	R	Q	C	K	C	I	R	Q	C
-	-	R	R	C	K	C	I	R	Q	C

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FIG. 31A (1/2)

**Dm-AMPL**

GAG CTT TGC GAG AAG GCT TCT AAG ACT TGG TCT GGA AAC

TGG GAG GGA GCT GCT CAT GGA GCT TGC CAT GTT AGA AAC

Dm-AMP2

GAG GTT TGC GAG AAG GCT TCT AAG ACT TGG TCT GGA AAC

**Cb-AMPI**

GAG CTT TGC GAG AAG GCT TCT AAG ACT TGG TCT GGA AAC

TGG GAG GGA GCT GCT CAT GGA GCT TGC CAT GTT AGA AAC

**Cb-AMP2**

GAG CTT TGC GAG AAG GCT TCT AAG ACT TGG TCT GGA AAC

TGG GAG GGA GCT GCT CAT GGA GCT TGC CAT GTT AGA TCT

FIG. 31A(2/2)

TGC GGA AAC ACT GGA CAT TGC GAT AAC CAA TGC AAG TCT

GGA AAG CAT ATG TGC TTC TGC TAC TTC AAC TGC

TGC GGA AAC ACT GGA CAT TGC ... ...

TGC GGA AAC ACT AAG CAT TGC GAT GAT CAA TGC AAG TCT

GGA AAG CAT ATG TGC TTC TGC TAC TTC AAC TGC

TGC GGA AAC ACT AAG CAT TGC GAT AAC AAG TGC AAG TCT

GGA AAG CAT ATG TGC TTC TGC TAC TTC AAC TGC



# FIG. 31B

Lc-AFP

AAG ACT TGC GAG AAC CTT TCT GGA ACT TTC AAG GGA CCA

AAC GAG CAT CTT CTT TCT GGA AGA TGC AGA GAT GAT TTC

Ct-AMPI

AAC CTT TGC GAG AGA GCT TCT CTT ACT TGG ACT GGA AAC

TGG GAG TCT GCT AAG CAT GGA GCT TGC CAT AAG AGA GGA

TGC ATT CCA GAT GGA AAC TGC AAC AAG CAT TGC AAG AAC

??? TGC TGG TGC ACT AGA AAC TGC

TGC GGA AAC ACT GGA CAT TGC GAT ACT CAA TGC AGA AAC

AAC TGG AAG TGC TTC TGC TAC TTC GAT TGC

FIG. 32

Rs-nsLTP	A L S C G T V N S N L A A C I G Y L T Q
	N A P L A R G C C T G V T N L N N M A ? T T P

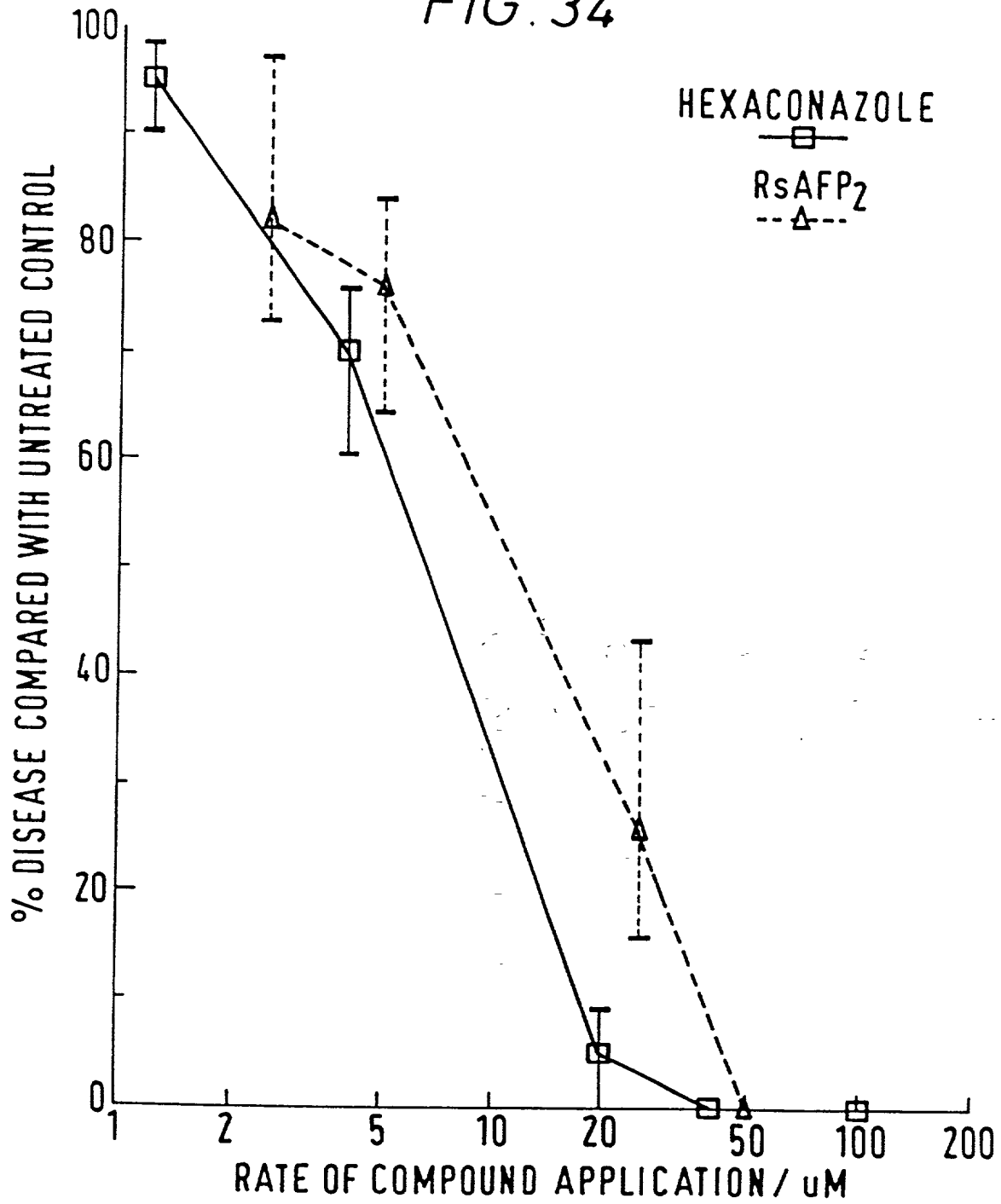
FIG. 33 (1/2)

Rs-nsLTP	A L S C G T V N S N L A A C I G Y L T Q
So-nsLTP	G I T C G M V S K L A P C I G Y L K G
Rc-nsLTP	V D C G Q V N S S L A S C I P F L T G
Dc-nsLTP	V L T C G Q V T G A L A P C L G Y L R S
Hv-nsLTP	A L N C G Q V D S K N K P C L T Y V Q G
Zm-nsLTP	A I S C G Q V A S A I A P C I S Y A R G

FIG. 33 (2/2)

N - A - - -	P L	A R G	C C T G V	T N	L N N M	A ?	T T P	...
G - - - -	P L	G G S	S G G I K	A	L N A A	A	T T P	...
G V A S - -	P S	A S -	C C A G V	Q N	L K T L	A	T S A	...
Q V N V P V	P L	T - -	C C N V V R	G	L N N A	A	T T L	...
G P G - G -	P S	G L -	C C N G V R	D	L H N Q	A	S S G	...
Q - G S G -	P S	A - G	C C S G V R	S	L N N A	A	T T A	...

FIG. 34



GTTTTATTAGTGATCAIGGCTAAGTTTGGTGCCATCATCGCACATT 45  
     M A K F A S I I A L  
  
 CTTTTGCTGCTCTTGTTCITTTTGTGCTGCTTTTCGAAGCACCAACA 90  
     L F A A L V L F A A F E A E T  
  
 ATGGTGAAGCACAGAAAGTTGTGCGAAAGGCCAAGTGGGACATGG 135  
     M V E A Q K L C E R P S G T W  
  
 TCAGGAGTCTGTGGAAACAATAACGCATGCAAGAATCAGTGCATT 180  
     S G V C G N N N A C K N Q C I  
  
 AACCTTGAGAAAGCACGACATGGATCTTGCAACTATGTCTTCCCA 225  
     N L E K A R H G S C N Y V F P  
  
 GCTCACAAGTGATCTGCTACTTTCCTTGTIAATTTATCGCAAAC 270  
     A H K C I C Y F P C \*  
  
 TCTTTGGTGAATAGTTTTTATGTAATTACACAAAATAAGTCAGT 315  
  
 GTCACATCCATGAGTGATTTTAAGACATGTACCAGATATGTTAT 360  
  
 GTTGGTTCGGTTATACAAATAAAGTTTTTATTCACCAAAAAAAA 405  
  
 AAAAAAAAAA 414

FIG. 35

GAGAAA 45  
 E K  
  
 AGTGT 90  
 K C  
  
 GTTAA 135  
  
 CTATT 180  
  
 GGGTT 225  
  
 GCTCA 270  
  
 284

**GAA TTCGGGCGC**

10     |     20     |     30     |     40     |     50     |     60     |  
 GTTTATTAGTCATGCGCTAAGTTGCGTCCATCATCGCACTTCTTTTGGCTGCTCTT

M A K F A S I I A L L F A A L

70 80 90 100 110 120  
GTTCTTTTGTGCTTTCGAAGCACCAACAATGGTGGAGCACAGAAAGTTGTGCCAAAGG

V	L	F	A	A	F	E	A	P	T	M	V	E	A
Q	K	L	C	Q	R								

FIG. 37 (2/2)

130 | 140 | 150 | 160 | 170 | 180 |  
 CCAAGTGGACATGGTCAGGAGTCTGTGGAACAATAACGCATGCAAGAATCAGTGCAATT

P S G T W S G V C G N N N A C K N Q C I

190 | 200 | 210 | 220 | 230 | 240 |  
 AGACTTGAGAAAGCACGACATGGATCTTGCAACTATGTCTTCCAGCTCACAAGTGATC

R L E K A R H G S C N Y V F P A H K C I

250 | 260 |  
 TGCTACTTTCCTTGTTAATAG

C Y F P C - -

FIG. 38

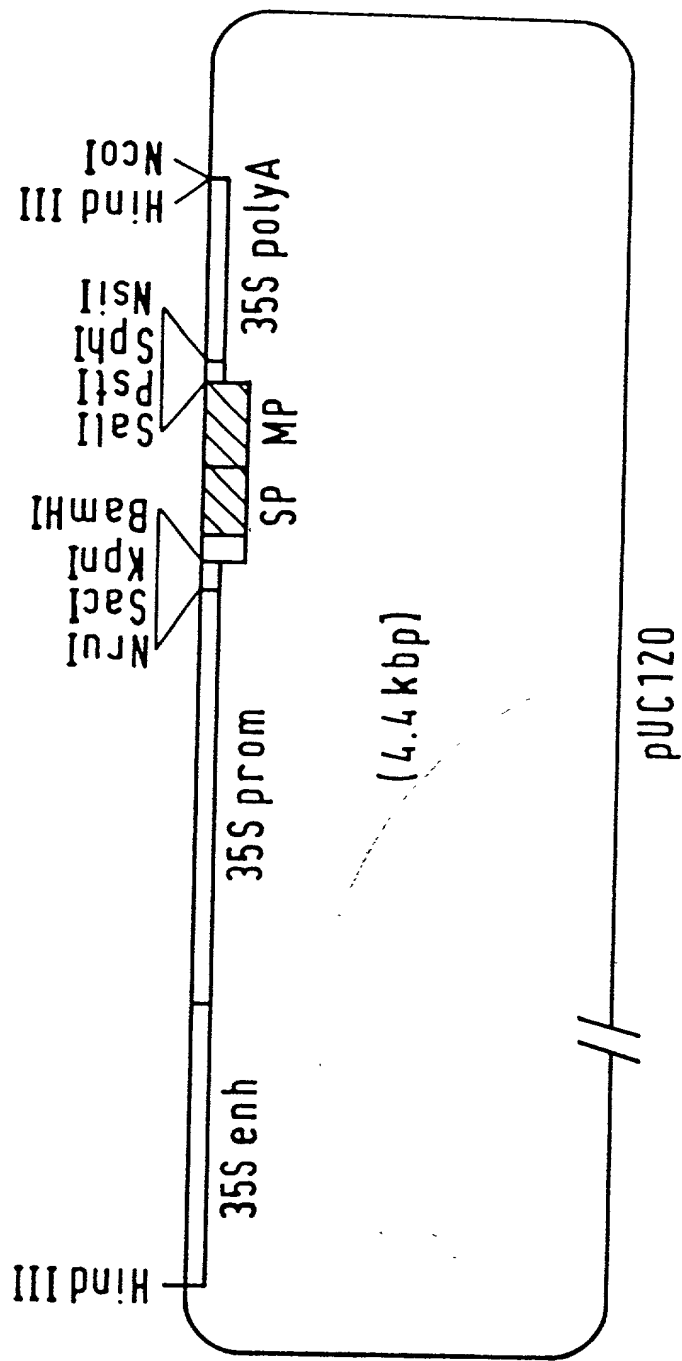




FIG. 39

